

SAFETY DATA SHEET



MIG/MIX/100 DISPOSABLE GAS CYLINDER

1. SUPPLIER	Sealey Quality Machinery, Kempson Way, Suffolk Business Park, Bury St. Edmunds, Suffolk. IP32 7AR Telephone: 01284 757500 Fax:01284 703534 e-mail:sales@sealey.co.uk
2. APPLICATION	Portable / disposable gas cylinder for the mobile welder containing 80% ARGON & 20% CARBON DIOXIDE.
3. COMPOSITION/INFORMATION ON INGREDIENTS	Substance/Preparation Preparation Components/Impurities Contains components 80% ARGON & 20% CARBON DIOXIDE.
4. HAZARD IDENTIFICATION	Compressed gas. In high concentrations may cause asphyxiation. High pressure release may cause damage to eyes and/or skin.
5. FIRST AID MEASURES	Inhalation: High concentrations can cause asphyxia. Symptoms may include immobility and/or loss of consciousness. The person affected may not be aware that he/she is suffering from asphyxia. Low concentrations can increase breathing frequency and cause headaches. Move the patient to an uncontaminated area using breathing apparatus. Keep the patient lying down and warm. Call a doctor. If the patient stops breathing practice artificial respiration. Ingestion: Ingestion is not considered to be a potential route of exposure. Eye & skin contact: Flush with tepid water for at least 15 mins. Obtain medical assistance.
6. FIRE-FIGHTING MEASURES	Specific Hazards : Non flammable. Exposure to fire may cause containers to erupt/explode. Inform Fire Brigade. Combustion products : No hazardous combustion products. Extinguishing media : All known extinguishants can be used. Specific methods : If possible, stop flow of product. Move container away or cool with water from a protected position. Inform emergency services of the nature of the product. Protective equipment: In confined spaces Fire Fighters should use self-contained breathing apparatus.
7. ACCIDENTAL RELEASE MEASURES	Personal precautions: Evacuate area. Wear self contained breathing apparatus when entering affected area unless atmosphere is proved to be safe. Ensure adequate air ventilation. Post warning notices. Environmental Try to stop release if it is safe to do so. Prevent from entering sewers, basements and work pits, or any place where its accumulation can be dangerous. Clean up methods: Ventilate area.
8. STORAGE AND HANDLING	Suck back of water into the container must be prevented. Do not allow back feed of gas into the container. Normal materials of construction are suitable for dry gas of ambient temperature. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. If in doubt contact the supplier/ manufacturer of the product. Keep containers below 50°C in a well ventilated place. Do not remove labels from containers. Do not handle containers by the valves. Do not use oil or grease on valves, fittings, or any other associated equipment. Containers should be kept upright even when empty. Do not attempt to transfer this gas into another container by decantation, re-pressurisation or any other method.
9. EXPOSURE CONTROLS/ PERSONAL PROTECTION	Personal precautions: Ensure adequate ventilation. Exposure limits: Exposure limit for country - UK : Carbon Dioxide Long Term Exposure Limit (LTEL) 5000ppm Short Term Exposure Limit (STEL) 15000ppm
10. PHYSICAL & CHEMICAL PROPERTIES	Molecular Weight.....40 Relative density, gas1.38 (air=1) Solubility mg/l water.....61mg/l Melting point-189°C Relative density, liquid..... N/A Appearance/colour Colourless gas Sublimation point.....-186°C Vapour pressure 20°C N/A Critical temperature-122°C OdourNone. Other data.....Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.
11. STABILITY & REACTIVITY	Stable under normal conditions.
12. TOXICOLOGICAL INFORMATION	General: High concentrations cause rapid circulatory insufficiency. Symptoms are headache, nausea and vomiting which may lead to unconsciousness. Gas contains carbon dioxide which has an Occupational Exposure Standard (OES) as described in the Health and Safety Executive guidance note EH40. It has a short term exposure limit (STEL) of 15000vpm (1.5%) and a long term exposure limit (LTEL) of 5000vpm (0.5%) level In a confined space, displacement of air by this gas may cause the exposure limits to be exceeded before the oxygen drops below 18%.
13. ECOLOGICAL INFORMATION	General: The product is not known to be ecologically damaging.
14. DISPOSAL CONSIDERATIONS	General: Do not discharge into any place where its accumulation could be dangerous. Contact producer for further information.
15. TRANSPORT INFORMATION	UN No.1956 ADR/RID Item No.2.1 ^{OA} Labelling ADR Label 2 : - non flammable non toxic gas Class/Div2.2 AADR/RID Hazard No.....20 Other transport information: - Avoid transport on vehicles where the load space is not separated from the drivers compartment. Ensure that the vehicle driver is aware of the potential hazard of the load and knows what to do in the event of an accident or an emergency. Ensure product containers are firmly secured before transporting them. Ensure that the cylinder valve is closed and not leaking. Ensure that the valve outlet cap nut or plug (where provided) is correctly fitted. Ensure valve protection device (where provided) is correctly fitted. Ensure adequate ventilation. Check compliance with applicable regulations. Transport containers upright. Do not store containers in the vehicle. Unload immediately at destination.
16. REGULATORY INFORMATION	Number in Annex 1 of Dir 67/548.....Not included in annex 1. EC ClassificationNot classified as a dangerous substance. Labelling of cylinders - Symbols.....Label 2: non flammable, non toxic gas. Hazard warningsHigh concentration of RAs can cause asphyxia. Suggested precautionsS9 Store container in a well ventilated area S23 Do not inhale gas
17. OTHER INFORMATION	Ensure all national / local regulations are observed. Do not breathe the gas. The hazard of asphyxiation is often overlooked and must be stressed during operator training. Always leak check cylinders when first collected, delivered or used, using an approved leak detection fluid. Keep containers in a well ventilated area. The information contained in this Safety Data Sheet is based on the present state of knowledge and the current legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or of the suitability for particular applications. Further information and relevant advice can be found in: The Control of Substances Hazardous to Health Regulations 1999 The Manual Handling Operations Regulations 1992 (SI 1992:2793) Storage of Packaged Dangerous Substances HS(g)71 The Environmental Protection (Duty of Care) Regulations 1992 (SI 1988:2839) The Chemicals (Hazard Information & Packaging for Supply) Regulations 1994 The Carriage of Dangerous Goods by Road Regulations 1996 The Carriage of Dangerous Goods (Classification, Packaging and Labelling) and Use of Transportable Pressure Receptacles Regulations 1996 Legal Disclaimer: The information supplied above is based upon the present state of our knowledge of the product at the time of publication. It is given in good faith and no warranty is implied with respect to the specification or quality of the product. The user must satisfy himself that the product is entirely suitable for his purpose.